

[I / We] claim:

1. A port blocking method for securing data comprising:
 - a port request detection step of detecting a port request for use of a port sent by a process;
 - a process identification step of determining the identity of said requesting process;
 - a process check step of determining if said process should be permitted to access said port; and
 - a permit/deny step of allowing said port request to be fulfilled if said process should be permitted to access said port and denying said port request if said process should not be permitted to access said port.
2. The method of claim 1 where said process check step comprises:
 - a secure process list check step of determining whether said process appears on a list of secure processes.
3. A port blocking method for securing data comprising:
 - a port request detection step of detecting a port request for use of a port sent by a process;
 - an open port process identification step of, if said port request is an open port request, determining the identity of said requesting process;
 - an open port process check step of, if said port request is an open port request, determining if said process should be permitted to open said port;
 - an open port permit/deny step of, if said port request is an open port request, allowing said open port request to be fulfilled and tracking said open port request if said process should be permitted to open said port and denying said port request if said process should not be permitted to open said port;
 - a close port process completion step of, if said port request is a close port request, completing said port request; and
 - a close port logging step of, if said port request is a close port request, logging the closing of said port.

4. The method of claim 3 where said open port process check step comprises:
a secure process list check step of determining whether said process appears on a list of
secure processes.

5 5. The method of claim 3 where said tracking of said open port request comprises
keeping a log of process ID and returned port handle for said open port request, and said close
port logging step of tracking the closing of said port comprises removing from said log said
record of process ID and returned port handle for that port close request.

10 6. The method of claim 5 further comprising:
a security check step comprising the steps of checking whether a process has open
ports, and denying security clearance for a process with open ports, and allowing security
clearance for a process with no open ports.

15 7. The method of claim 6 where said open port process check step of comprises
determining if said process identity appears on a secured process list, and where said step of
allowing security clearance for a process with no open ports comprises the step of placing said
process on said secured process list.

20 8. A port blocking system wherein said port blocking system operates to detect a port
request for use of a port sent by a process; determine the identity of said requesting process;
determine if said process should be permitted to access said port; and allow said port request
to be fulfilled if said process should be permitted to access said port and deny said port request
if said process should not be permitted to access said port.

25 9. A port blocking system wherein said port blocking system operates to detect a port request
for use of a port sent by a process; if said port request is an open port request, determine the
identity of said requesting process; if said port request is an open port request, determine if
said process should be permitted to open said port; if said port request is an open port request,
30 allow said open port request to be fulfilled, track said open port request if said process should
be permitted to open said port, and deny said port request if said process should not be
permitted to open said port; if said port request is a close port request, complete said port

request; and if said port request is a close port request, log the closing of said port.

10. A secured data transmission system having a port blocking system which operates to detect a port request for use of a port sent by a process; determine the identity of said

5 requesting process; determine if said process should be permitted to access said port; and allow said port request to be fulfilled if said process should be permitted to access said port and deny said port request if said process should not be permitted to access said port.

11. A secured data transmission system having a port blocking system which operates to

10 detect a port request for use of a port sent by a process; if said port request is an open port request, determine the identity of said requesting process; if said port request is an open port request, determine if said process should be permitted to open said port; if said port request is an open port request, allow said open port request to be fulfilled, track said open port request if said process should be permitted to open said port, and deny said port request if said process should not be permitted to open said port; if said port request is a close port request, complete said port request; and if said port request is a close port request, log the closing of said port.

12. A computer comprising a communications port and configured to protect secure data

20 by including a port blocking system which operates to detect a port request for use of a port sent by a process; determine the identity of said requesting process; determine if said process should be permitted to access said port; and allow said port request to be fulfilled if said process should be permitted to access said port and deny said port request if said process should not be permitted to access said port.

25 13. A computer comprising a communications port and configured to protect secure data

by including a port blocking system which operates to detect a port request for use of a port sent by a process; if said port request is an open port request, determine the identity of said requesting process; if said port request is an open port request, determine if said process should be permitted to open said port; if said port request is an open port request, allow said

30 open port request to be fulfilled, track said open port request if said process should be permitted to open said port, and deny said port request if said process should not be permitted to open said port; if said port request is a close port request, complete said port request; and if

said port request is a close port request, log the closing of said port.

14. A computer-readable medium programmed to protect secure data by implementing a port blocking system which operates to detect a port request for use of a port sent by a process; determine the identity of said requesting process; determine if said process should be permitted to access said port; and allow said port request to be fulfilled if said process should be permitted to access said port and deny said port request if said process should not be permitted to access said port.

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10 15. A computer-readable medium programmed to protect secure data by implementing a port blocking system which operates to detect a port request for use of a port sent by a process; if said port request is an open port request, determine the identity of said requesting process; if said port request is an open port request, determine if said process should be permitted to open said port; if said port request is an open port request, allow said open port request to be fulfilled, track said open port request if said process should be permitted to open said port, and deny said port request if said process should not be permitted to open said port; if said port request is a close port request, complete said port request; and if said port request is a close port request, log the closing of said port.

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